

2006 Central Employment Core Cordon Count

Full Report

by C. Patrick Zilliacus

Presented to
the TPB Technical Committee

Friday, March 2, 2007

Agenda Item 12

Where data collected

- The cordon line is a series of stations around the downtown areas of the District of Columbia and Arlington County, Virginia
- One day counts
- Sometimes called the *Ring 1* Cordon - formerly the *Metro Core* Cordon or *Metro Employment Core* Cordon
- This round of data collection in Spring, 2006
- Currently collected 5 A.M. to 10 A.M. inbound and 3 P.M. to 8 P.M. outbound
- Central Potomac River crossings also counted

What data were collected

- Traffic counts (including vehicle occupancy)
- Transit Data
 - Metrorail
 - Metrobus, Downtown Circulator, Fairfax Connector, DASH and ART
 - MARC and VRE
 - Commuter bus (e.g. PRTC and MTA)

Significance in statistical terms

- These are a series of one-day counts
- A.M. (3 hour) - change should be greater than 9,700
- P.M. (3 hour) - change should be greater than 9,300
- See Appendix J in the report for additional information

Figure EX-1
2006 Central Employment Area Cordon Count
Trends in Person Trips: 1996 - 2006
Inbound 6:30 - 9:30 A.M.

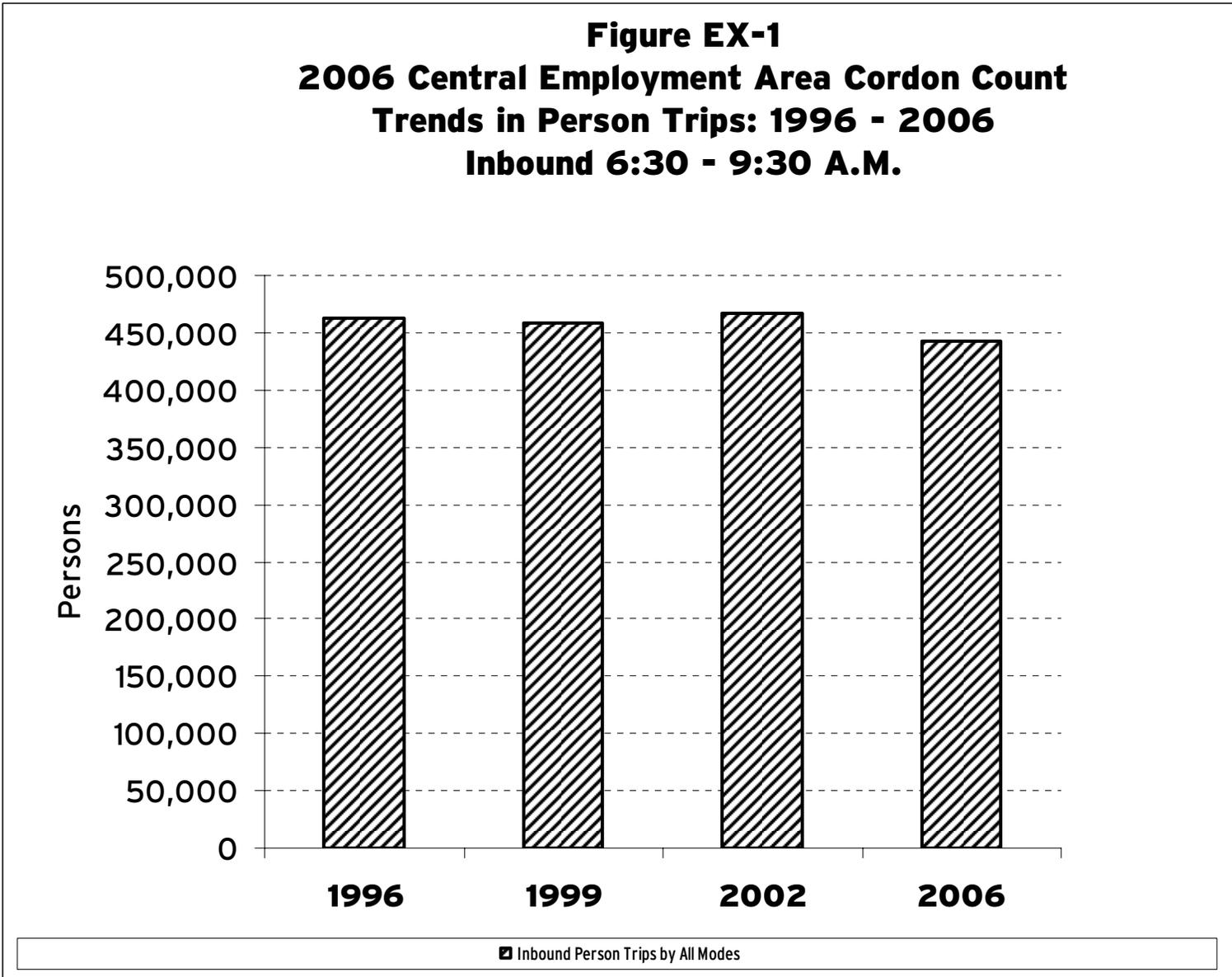


Figure EX-2
2006 Central Employment Area Cordon Count
Trends in Person Trips: 1996 - 2006
Outbound 3:30 - 6:30 P.M.

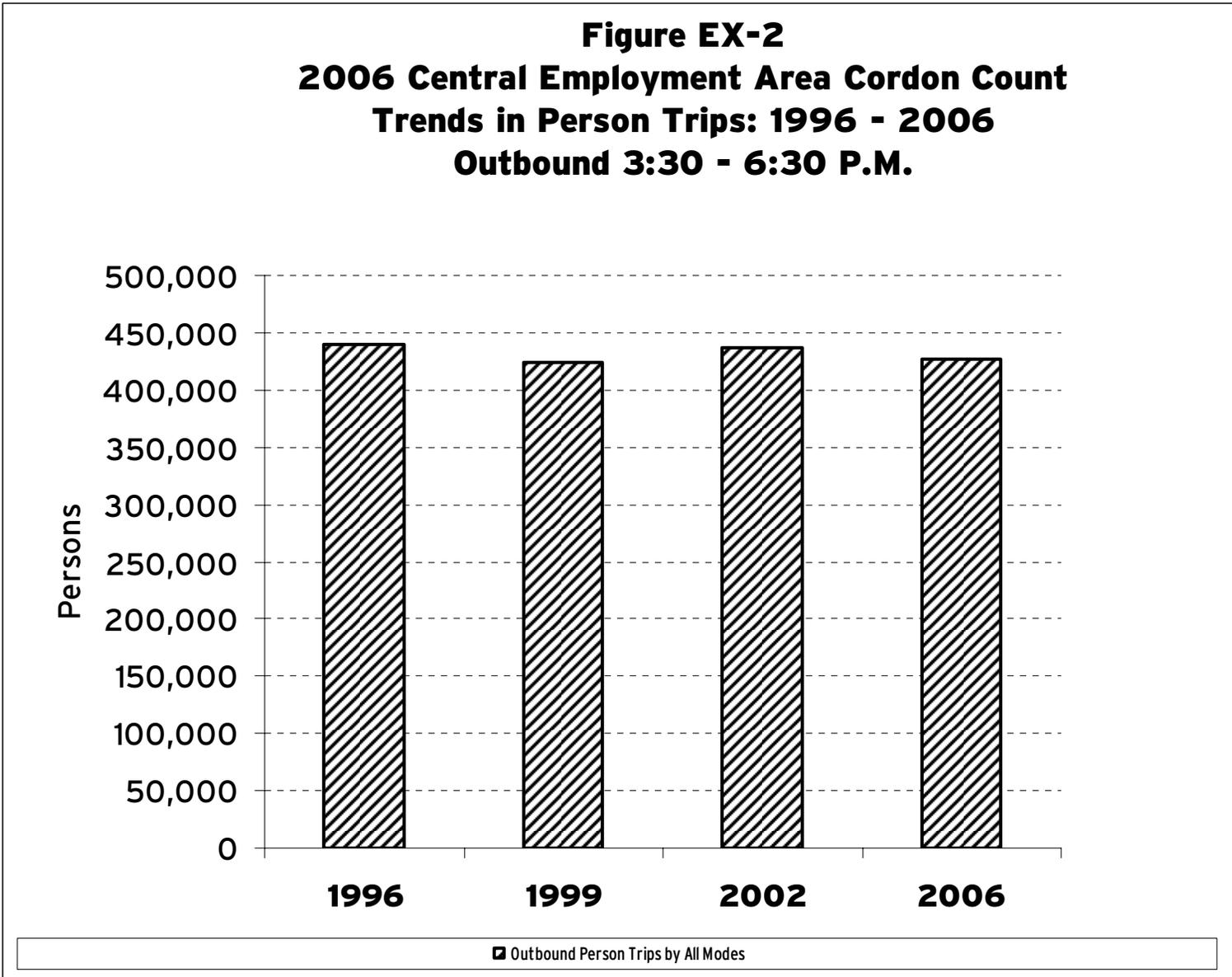


Figure EX-3
2006 Central Employment Area Cordon Count
Trends in Person Trips by Mode: 1996 - 2006
Inbound 6:30 - 9:30 A.M.

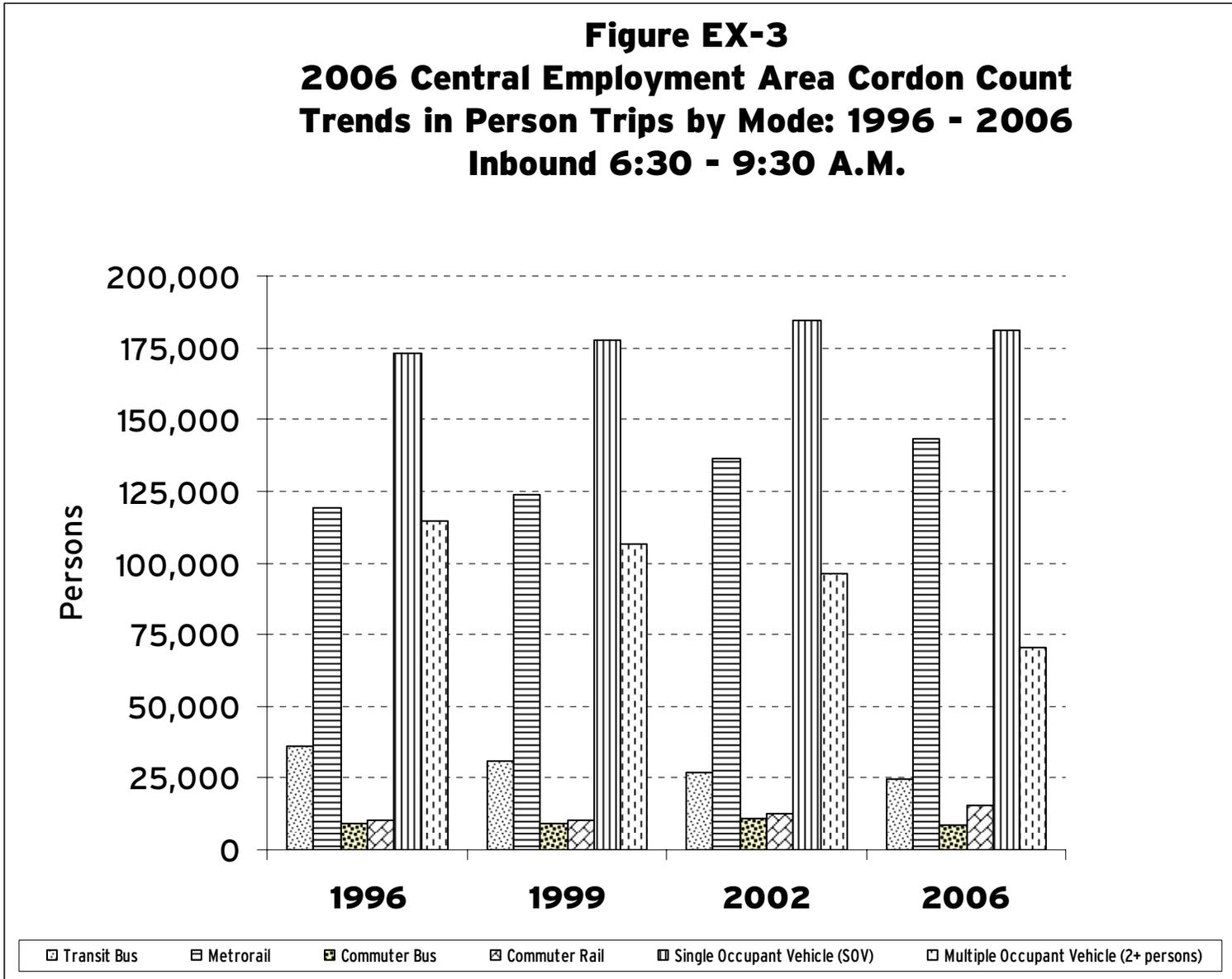


Figure EX-4
2006 Central Area Employment Cordon Count
Trends in Person Trips by Mode: 1996 - 2006
Outbound 3:30 - 6:30 P.M.

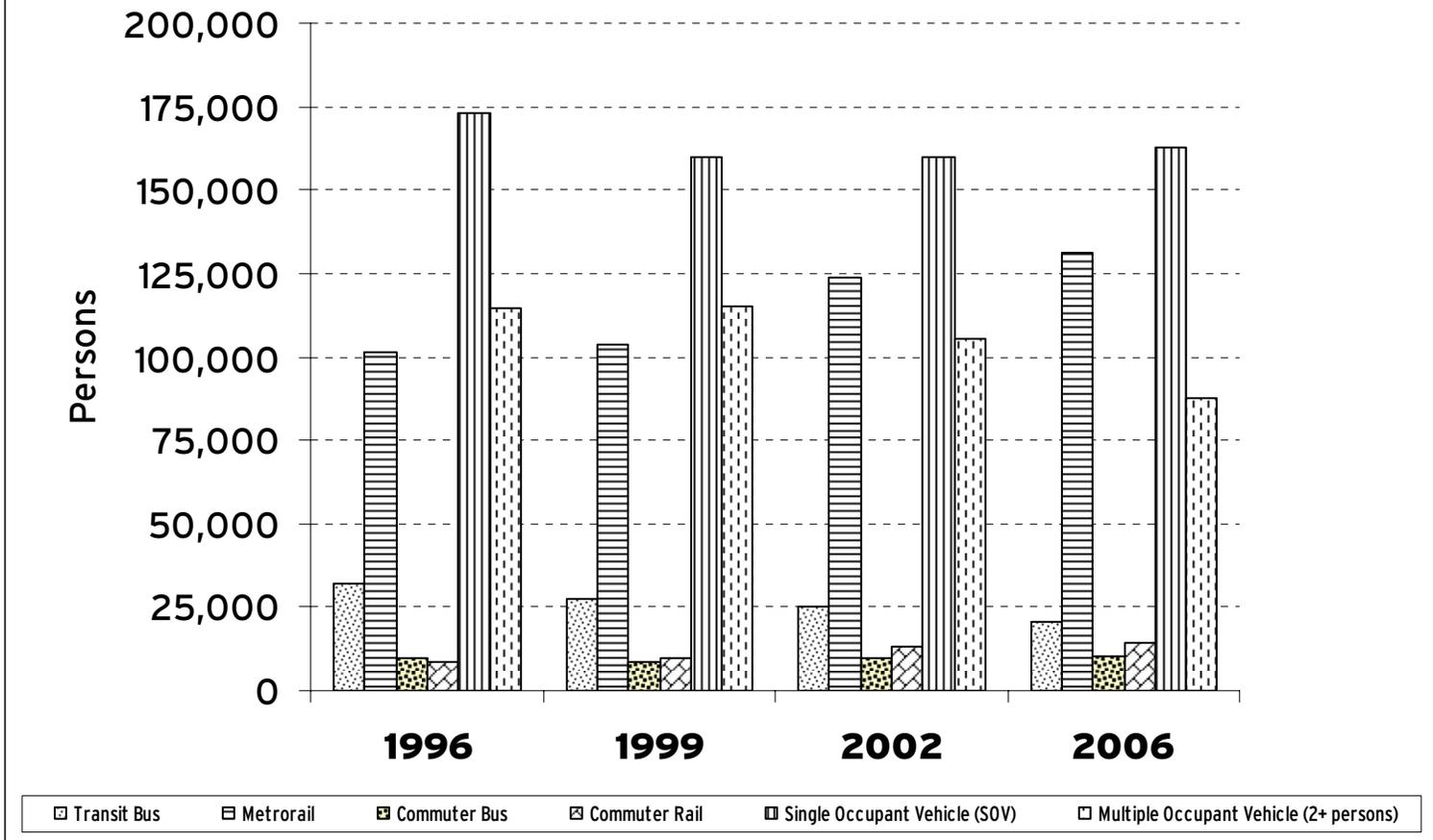


Figure 1
2006 Central Employment Area Cordon Count
Historical Timeseries, 1975 - 2006
Person Trips by Mode
Inbound 6:30 - 9:30 A.M.

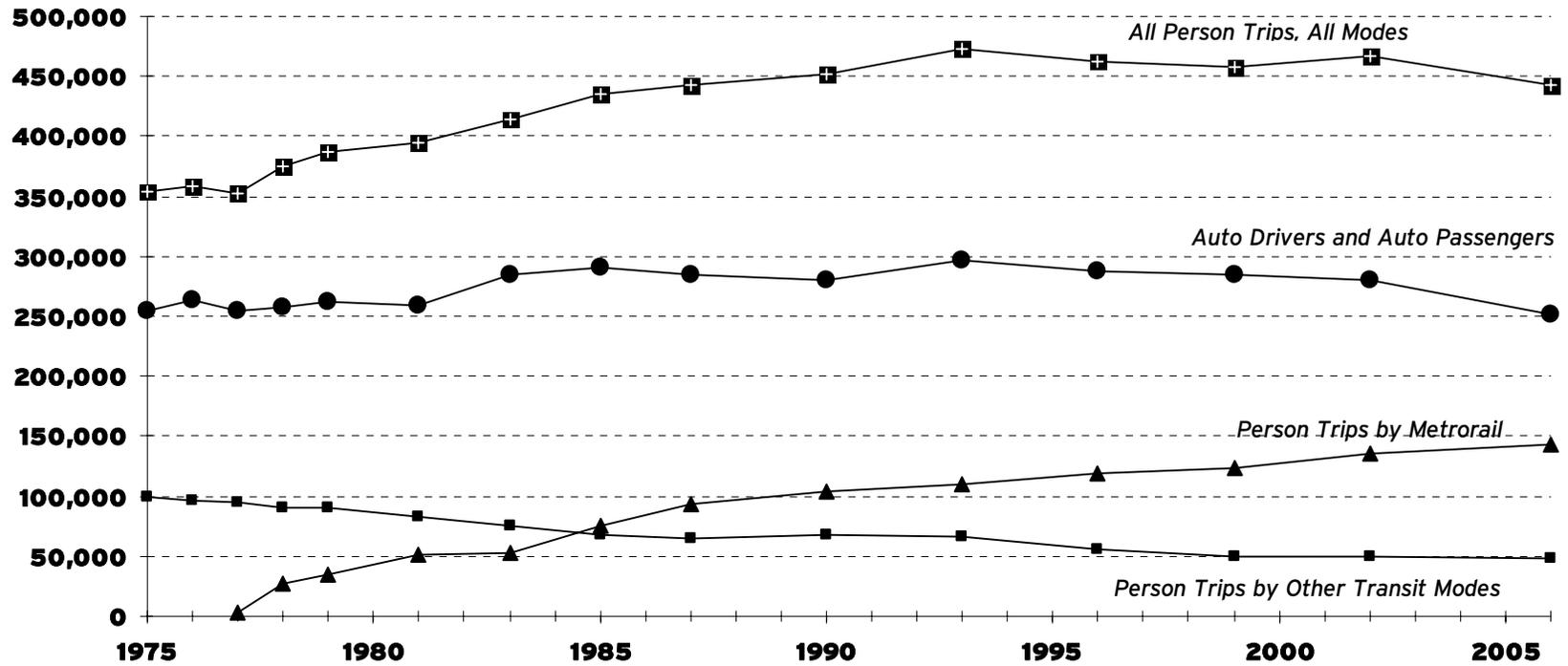
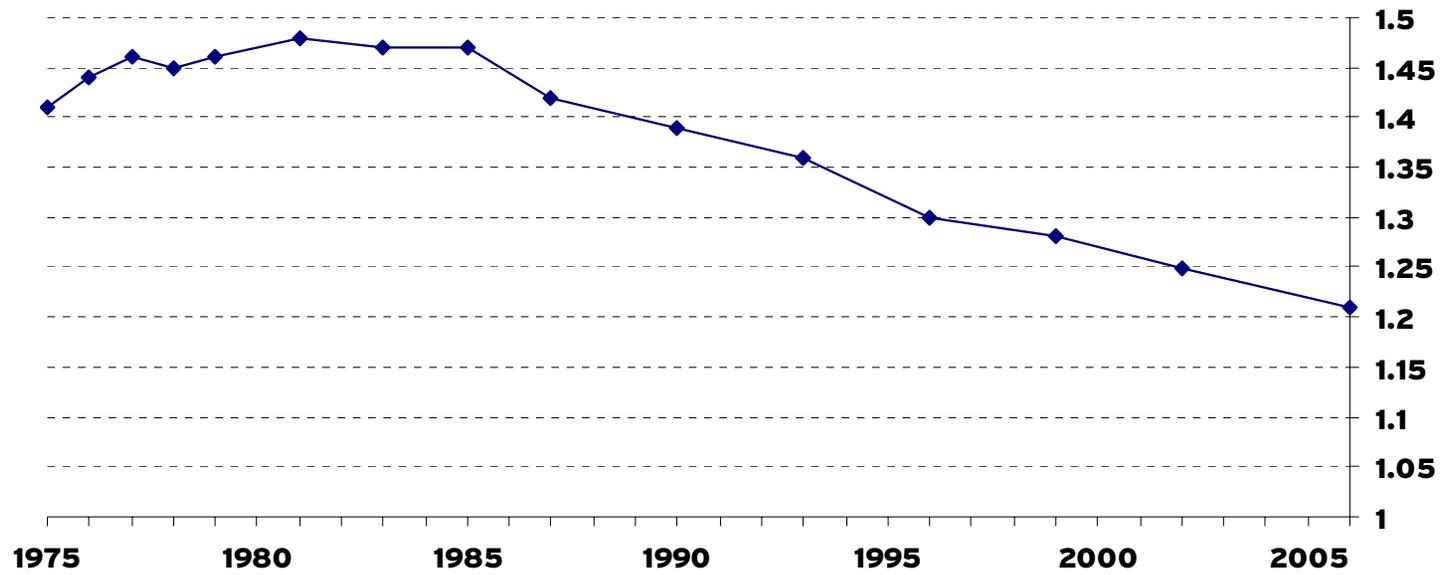


Figure 2
2006 Central Employment Area Cordon Count
Observed Average Auto Occupancy, 1975 - 2006
Inbound A.M. Peak Period 6:30 - 9:30 A.M.



Preliminary Findings

(2006 compared to 2002)

- Decline in inbound person trips
- Car-pooling - continued decline
- Single-occupant vehicles - little change
- Transit patronage up - slightly
- Vehicular traffic crossing cordon line - slight decline - **if cordon considered as a whole.**

Central Potomac River bridge counts

- *Supplemental* to cordon count
- Bridges counted both directions in both monitoring periods, as in 2002
- All bridge count tables moved to Appendices E, F, G and H

Historical Data

- Significant amount of historical data for A.M. peak period in report appendices.
- Especially Appendices N, Q, R and S.

Next Steps

- Comments welcome
- Please submit by Friday, March 30, 2007
- Will present this to Travel Forecasting Subcommittee in March

Questions?

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